USB 2.0+FireWire+SATA Quick Installation Guide

Introducing the *USB 2.0+FireWire+SATA Combo*

The *USB 2.0+FireWire+SATA Combo* design adds USB 2.0, FireWire (1394a), and Serial ATA interfaces to your system.

Key Features and Benefits

USB 2.0 interface:

- Adds three external and one internal USB 2.0 ports
- Compliant with USB specification rev. 2.0
- Supports high-speed (480 Mbps), full-speed (12 Mbps), and low-speed (1.5 Mbps) data transfer modes for simultaneous operation of multiple USB 2.0/1.1 devices
- Hot-swapping feature allows you to connect/disconnect devices without powering down your system
- Works with a various type of USB devices including hubs, removable drives, digital cameras, scanners, CD-RWs, DVD-ROMs, PC video cameras, printers, CF/SM/MMC/SD/ Memory Stick memory card readers, and more...

  Note: USB 1.1 devices are limited to USB 1.1 speeds even when they are connected to USB 2.0 host adapter or USB 2.0 hubs.

FireWire (1394a) interface:

- Adds two external and one internal FireWire (1394a) ports
- Compliant with IEEE 1394-1995, P1394a-2000 and OHCI 1.1 standards
- Supports serial bus data transfer rates of 100, 200 and 400 Mbps
- Hot-swapping feature allows you to connect/disconnect devices without powering down your system
- Works with various types of 1394 devices including DV camcorders/cameras, hard disk drives, CD-RWs, DVD-ROMs, removable drives, scanners, and other audio/video devices...

Serial ATA interface:

- Compliant with Serial ATA 1.0 specification
- Provides two independent Serial ATA channels (built-in 256-byte FIFOs per channel) for faster data transfer
- Breaks the 137GB barrier! Supports hard drives larger than 137GB
- Co-exists with on-board IDE controller
- Flash BIOS for easy upgrade
- Achieves burst data transfer rates up to 150MB/sec
- Works with various brands of Serial ATA hard disk drives

Board Layout

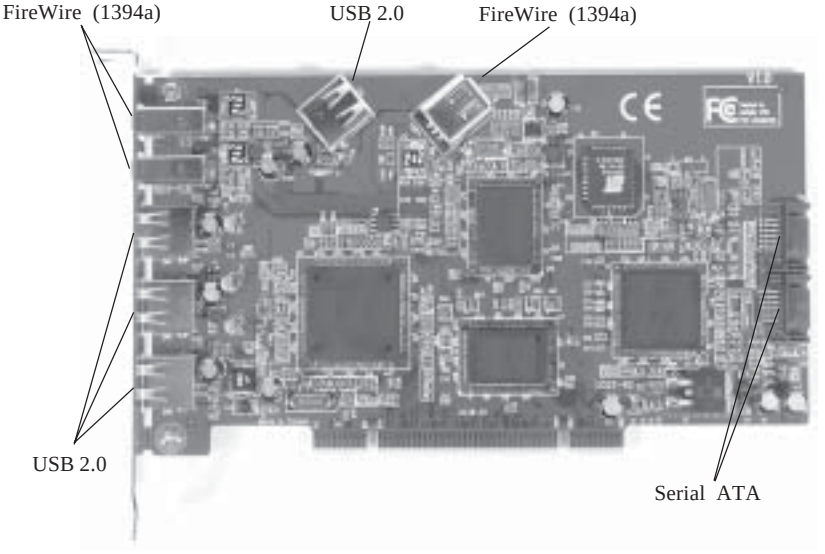

Figure 1. Board Layout

System Requirements

- Pentium or equivalent computer with an available PCI slot
- Windows 98SE/ME/2000/XP

Package Contents

- (1) *USB 2.0+FireWire+SATA Combo* board
- (1) Serial ATA cable
- (1) Serial ATA 15-pin power cable adapter
- (1) USB 2.0 driver diskette
- (1) Serial ATA driver diskette
- This quick installation guide

Hardware Installation

General instructions for installing the card are provided below, since the design of computer cases and motherboards vary. Refer to your computer's reference manual for further information, if needed.

Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer's case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

- Turn OFF the power to your computer and any other connected peripheral devices. Unplug the computer's power cord.
- Remove your computer's cover and install the card in an available PCI slot.
- Push the board down firmly, but gently, until it is well seated.
- Secure the card and replace the cover.

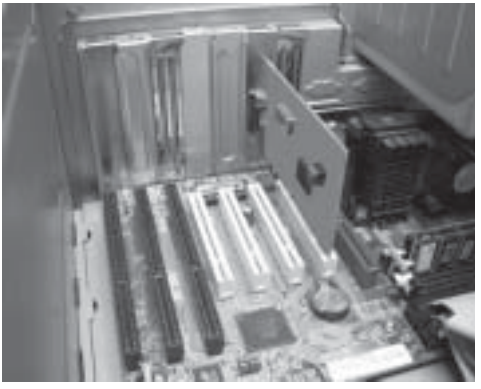

Figure 2. Inserting the PCI Board

Connecting Serial ATA drives

The *USB 2.0+FireWire+SATA Combo* board supports up to two Serial ATA hard disk drives. If you plan to use the second Serial ATA channel, you will need to purchase another Serial ATA cable.

1. Install hard disk drive(s) in chassis.
2. Connect the Serial ATA hard disk drive to the system power supply using the *Serial ATA power cable adapter*.
3. Connect one end of the *Serial ATA cable* to the hard disk drive.
4. Attach the other end of the *Serial ATA cable* to the Serial ATA connector on the *USB 2.0+FireWire+SATA Combo* board.
5. Follow the same instructions when connecting a second hard drive.

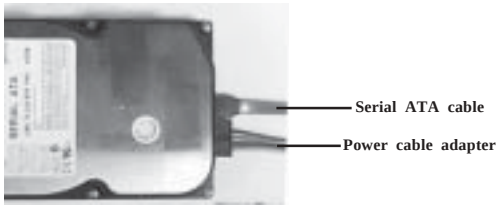

Figure 3. Hard disk drive connections

Software Installation

Throughout driver installation, you may be prompted to insert your Windows Installation CD. Some files on this CD are neccessary to complete the driver installation. Please insert the CD when prompted and follow on-screen instructions.

Windows 98SE Driver Installation

1. Boot up Windows. At the **Add New Hardware Wizard** window, click **Cancel**.

   Note: Click **Cancel** 6 times if a hard disk drive is attached.
2. Insert the **USB 2.0** driver diskette. Click **Start**, **Run**, type in **A:\setup206.exe**, then click **OK**.
3. Choose **Yes, I want to restart my computer now**, then click **Close**. Remove the driver diskette.

4. Windows restarts. At the **Add New Hardware Wizard** window, click **Next**.
5. Choose **Search for the best driver...** and click **Next**.
6. Uncheck all boxes and click **Next**.
7. Click **Next** and **Finish**.
8. At the **Add New Hardware Wizard,** click **Next**.
9. Choose **Search for the best driver...** and click **Next**.
10. Uncheck all boxes and click **Next**.
11. Click **Next** and **Next** again. If prompted, insert your Windows 98SE CD-ROM and click **OK**. Click **Finish**.
12. Repeat steps **8-11** two more times.
13. At the **Add New Hardware Wizard**, click **Next**.
14. Choose **Search for the best driver...**, and click **Next**.
15. Insert the **Serial ATA** driver diskette. Check **Floppy disk drives**, uncheck the other boxes, then click **Next**.
16. Click **Next** and **Finish**.
17. Remove the driver diskette and restart the computer to complete driver installation.

Windows ME Driver Installation

1. Boot up Windows. At the **Add New Hardware Wizard** window, click **Cancel**.

   Note: Click **Cancel** 4 times if a hard disk drive is attached.
2. Insert the **USB 2.0** driver diskette. Click **Start**, **Run**, type in **A:\setup206.exe**, then click **OK**.
3. Choose **Yes, I want to restart my computer now**, then click **Close**. Remove the driver diskette.
4. Windows restarts. The **Add New Hardware Wizard** detects **PCI standard PCI to PCI bridge**, choose **Automatic Search for a better driver**, click **Next**, then click **Finish**.
5. When the **Add New Hardware Wizard** detects a **1394 Host Controller**, choose **Automatic Search for a better driver**, click **Next**, then click **Finish**.

6. When the **Add New Hardware Wizard** detects a **PCI Mass Storage Device**, insert the **Serial ATA** driver diskette, choose **Automatic Search for a better driver**, click **Next**, then click **Finish**.
7. Remove the driver diskette and click **Yes** to restart Windows to complete driver installation.

Windows 2000 Driver Installation

1. Boot up Windows. At the **Found New Hardware Wizard** window, click **Cancel** two times.
2. Insert the **USB 2.0** driver diskette. Click **Start**, **Run**, type in **A:\setup206.exe**, then click **OK**.
3. Choose **Yes, I want to restart my computer now**, then click **Close**. Remove the driver diskette.
4. Windows restarts. At the **Found New Hardware Wizard**, click **Next**.
5. Insert the **Serial ATA** driver diskette. Choose **Search for a suitable driver...**, and click **Next**.
6. Check **Floppy disk drives**, uncheck the other boxes, then click **Next**.
7. Click **Next**.
8. At the **Digital Signature Not Found** window click **Yes**. *Our driver has been thoroughly tested in Windows for stability. This message appears because Microsoft has not tested this product through WHQL certification.*
9. Click **Finish** to complete driver installation.

Windows XP Driver Installation

Important: *If the hard disk drive connected to your controller has a boot partition, do not connect this drive until the controller's driver has been completely installed in Windows XP. Follow the instructions below to install the driver for the controller first, then shut down your system and connect the hard disk drive. The controller is ready for operation.*

Note: If you have have XP Service Pack 1 or later installed, Windows will automatically detect and install the correct USB 2.0 driver for this board. In this case complete steps **5-7** and skip the others to complete the driver installation.

1. Boot up Windows. At the **Found New Hardware Wizard** window, click **Cancel** two times.
2. Insert the **USB 2.0** driver diskette. Click **Start**, **Run**, type in **A:\setup206.exe**, then click **OK**.
3. Click **Continue Anyway**. *Our driver has been thoroughly tested in Windows for stability. This message appears because Microsoft has not tested this product through WHQL certification.*
4. Choose **Yes, I want to restart my computer now**, then click **Close**. Remove the driver diskette.
5. Insert the **Serial ATA** driver diskette after Windows resumes.
6. At the **Found New Hardware Wizard** window, choose **Install the software automatically (Recommended)**, then click **Next**.
7. Click **Continue Anyway** and **Finish**.
8. Repeat steps **6-7** two more times to complete driver installation.

To verify successful driver installation:

1. Check **Device Manager** to verify successful driver installation.

   Windows 98SE/ME: From the main desktop, right click **My Computer**, click **Properties**, then click **Device Manager**.

   Windows 2000/XP: Right click **My Computer**, click **Manage**, then click **Device Manager**.
2. Double click **Universal Serial Bus controllers** and the following options should be displayed, in addition to others that may come with your system.
   - **NEC PCI to USB Enhanced Host Controller**
   - **NEC PCI to USB Open Host Controller...**
   - **NEC PCI to USB Open Host Controller...**
   - **USB 2.0 Root Hub Device**
   - **USB Root Hub**
   - **USB Root Hub**

   Note: With XP Service Pack 1 installed, the USB entries are different from what is listed above but function normally.

3. Double click **1394 Bus Controller** or **IEEE 1394 Bus host controllers** option and an **OHCI Compliant IEEE 1394 Host Controller** should be displayed.
4. Double click **SCSI controllers** or **SCSI and RAID controllers**, **Silicon Image SiI 3112... Controller** should be displayed.

Bios Configuration

The SATA **BIOS** will appear everytime your system starts up. If the bios doesn't show, please try your controller in another PCI slot. During this **(Post)** process, the bios will show up and indicate the devices (hard disk drives) attached to it.

Technical Support

QUESTIONS? SIIG's **Online Support** has the answers! Simply visit our web site at ***www.siig.com*** and click **SUPPORT.** Our online support database is updated daily with new drivers and solutions. The answers to your problems could be just a few clicks away.

Return Merchandise Authorization (RMA)

SIIG warrants to the original buyer of the product that the hardware is free of defects in materials and workmanship for a period of one, two or five years from the date of purchase. If your product fails to be in good working order during the warranty period, you may return it to SIIG for repair or replacement at SIIG's option.

To return the product, you need to follow these steps.

Step 1: Contact SIIG's RMA Department

To obtain an RMA number, SIIG's RMA Department can be reached by phone at **(510)413-5333** or fax at **(510)657-5962** or email at **service@siig.com.** In order to issue an RMA number, the product serial number is required. This number can be found on the side of the box and on the back of the product.

Step 2: Complete the RMA form

- Fill out your Return Merchandise Authorization (RMA) form, and include it in the package with the product.
- Properly pack the product for shipping. All software, cable(s) and other accessories that came with the original package **must be included**.
- Clearly write your RMA number on the top of the returned package and on the accompanying RMA form.

  SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.

Step 3: Ship the Product

You are responsible for the cost of shipping back to SIIG at the following address:

SIIG, Inc. RMA#_____
6078 Stewart Ave.
Fremont, CA 94538

SIIG will ship the repaired or replaced product via UPS Ground or US Mail at no cost to you.

UK Warranty & Support Information

The 5 year warranty supplied with this product is offered by SIIG, Inc. If you should happen to encounter any problems with this product, please follow the procedures below.

1. If it is within the first year of purchase, please return product to the outlet you purchased from.
2. If your product is between 2 and 5 years old from date of purchase, please contact SIIG using the contact details below.

For UK Technical Support

Telephone:	+44 (0) 1255 687503
Fax:	+44 (0) 1255 687501
Email:	support@siig.uk.com
Website:	http://www.siig.uk.com

PRODUCT NAME	MODEL NUMBER
USB 2.0+FireWire+SATA Combo	CN2507

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE PARTY RESPONSIBLE FOR
PRODUCT COMPLIANCE
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Fremont, CA 94538-3152

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